

DIMENSIONAL ANALYSIS

Name & #: _____ Date: _____ Period: _____

Convert the following

1. How long is a football field (100 yards) in inches?
2. 160 eggs = ? dozen
3. If a candy bar weighs 7.5 oz, what would be the weight in pounds of 76.5 candy bars? (16 oz = 1 lb)
4. How many minutes are in July (July has 31 days)?
5. If you buy 3.47 pounds of ground beef and you made each burger 3 oz, how many burgers can you make?
6. Exactly on time on your 60th birthday, how many seconds old will you be?
7. Levoxyl is a drug used to treat hypothyroidism. If a patient takes one 75 μg tablet per day, how many milligrams of Levoxyl are in their 1 month (30 day) supply?

8. A common pain reliever contains 500 mg of Acetaminophen per tablet. The package directions recommend taking no more than 8 tablets in a 24 hour period. How many grams of Acetaminophen a day is the maximum recommended dose?
9. Suppose you have folder containing 94 MB (megabytes) of material on your computer's hard drive that you want to back up. This would fit on a 100 MB zip, but your zip drive recently broke. How many floppy disks would you need to use to back up the folder? (A floppy disk holds about 1.38 megabytes of electronic material).
10. 18. Brad's computer has 23.5 GB (gigabytes: $1 \text{ GB} = 1024 \text{ MB}$) of free space. His drive has a capacity of 40.0 GB. A typical writable CD will hold about 700 MB of electronic material. How many CD's does Brad need to completely back up his computer? How many floppies?